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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/967,136	09/27/2001	Richard Joseph McConnell	ST0002SUSU	4922

7590 01/10/2006

THE ECLIPSE GROUP
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EXAMINER

NGUYEN, DUNG X

ART UNIT PAPER NUMBER

2638

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/967,136

Applicant(s)

MCCONNELL, RICHARD JOSEPH

Examiner

Dung X Nguyen

Art Unit

2631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on application filed on September 27, 2001.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1 - 16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1 - 16 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 September 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings Objection

1. Figures 1 - 5 must be submitted in formal drawings, not in hand drawings. Appropriate correction is required.

Allowable Subject Matter

- 2 **Claims 1 – 16 are allowed.** The following is a statement of reasons for the indication of allowable subject matter:

Regarding to the claim 1, the prior art of record fails to show or render obvious of a method for reducing the number of calculations required to correlate incoming spread spectrum signal encoded with a pseudorandom code, comprising:

- Determining for the spread spectrum signal, mathematical processes that are required in a correlation process;
- Removing at least a portion of the mathematical processes that are repeated in the correlation process;
- Storing the remaining mathematical processes in a table;
- Using the table during the correlation process to determine when a locally generated pseudorandom code and incoming pseudorandom code are correlated.

Regarding to the claim 9, the prior art of record fails to show or render obvious of a spread spectrum receiver, comprising:

- Means for determining, for an expected incoming spread spectrum signal, mathematical processes that are repeated in a correlation process;
- Means for storing at least that portion of the mathematical process in a table, wherein at least a portion that are repeated in the correlation process are not stored in the table;
- Means for using the table during the correlation process to determine when a locally generated pseudorandom code and incoming pseudorandom code are correlated.

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Malvar et al.'s teaching lacks of the steps provides means for storing at least the portion of the mathematical processes that are not repeated in the correlation process in a table.

Conclusion

3 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Siram et al. (US patent # 6,778,587 B1) discloses a method for maintaining timing a CDMA Rake receiver.

Malvar et al. (US patent # 6,778,587 B1) discloses a spread spectrum modulation system and method for embedding digital information into digital or analog media.

Broekhoven et al. (US patent # 6,778,587 B1) discloses a pre-correlation digital spread spectrum receiver.

4. This application is in condition for allowance except for the following formal matters:

Figures 1 – 5 are submitted in hand drawings as objected in paragraph # 1 above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung X. Nguyen whose telephone number is (571) 272-3010. The examiner can normally be reached on Monday through Friday from 8:00 AM to 17:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Vanderpuye Kenneth N. can be reached on (571) 272-3078. The fax phone numbers for this group is (571) 273-3021.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

DXN

December 28, 2004



KENNETH VANDERPUYE
SUPERVISORY PATENT EXAMINER